

NAME \_\_\_\_\_

PERIOD \_\_\_\_\_ DATE \_\_\_\_\_

THE ROLE OF  $a$  IN  $y = ax^2 + bx + c$ 

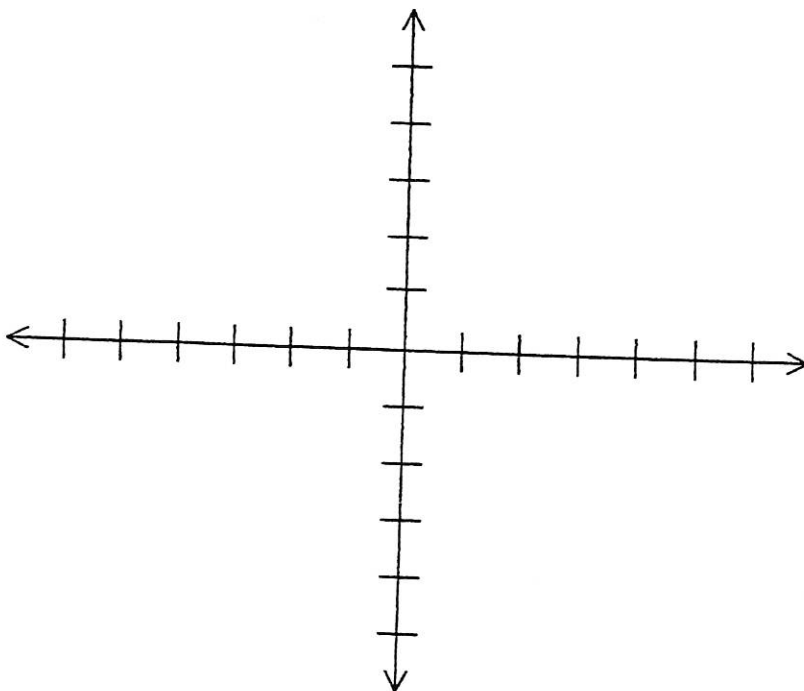
Sketch the graph of the following functions on the axis system below.

a)  $y = x^2$

b)  $y = 4x^2$

c)  $y = \frac{1}{4}x^2$

d)  $y = -x^2$



Conclusions:

- 1) \_\_\_\_\_  
\_\_\_\_\_
- 2) \_\_\_\_\_  
\_\_\_\_\_
- 3) \_\_\_\_\_  
\_\_\_\_\_

1.2 2in

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### THE ROLE OF $c$ IN $y = ax^2 + bx + c$

Sketch the graph of the following functions on the axis system below.

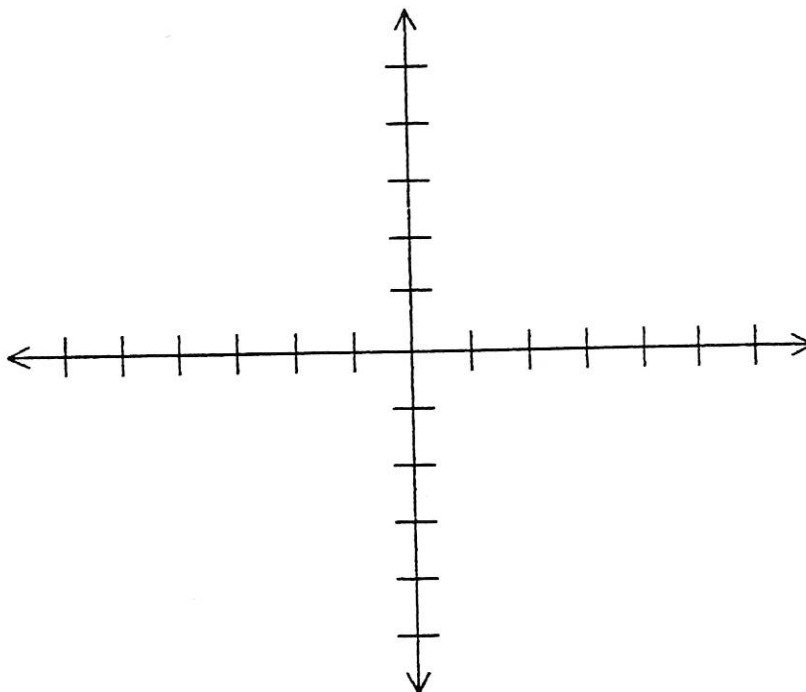
a)  $y = x^2 + 2x$

b)  $y = x^2 + 2x + 2$

c)  $y = x^2 + 2x + 5$

d)  $y = x^2 + 2x - 2$

e)  $y = x^2 + 2x - 5$



Conclusion: \_\_\_\_\_  
\_\_\_\_\_